Wikipedia-editing as a teaching strategy in health professional schools: 6 years, 5 countries, 5 professions…and counting.

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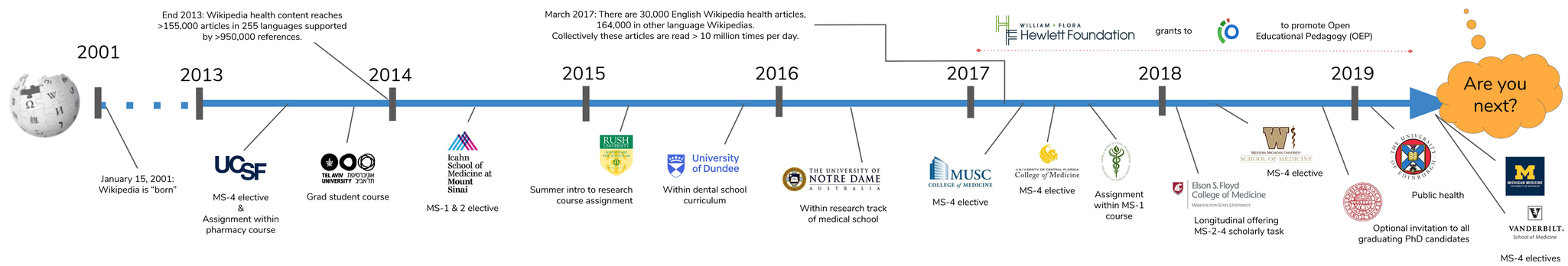
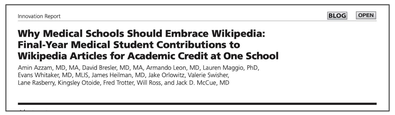
Abstract

- Wikipedia is the world's most frequently used health-information source.
- Embracing the platform helps fulfill health professional schools' teaching & service missions.
- Student & faculty effort searching, analyzing, writing & editing Wikipedia is scholarly work.
- The Wiki Education Foundation's "Students in the Health Professions" campaign aggregates all efforts of these students editing WIkipedia as part of formal coursework.
- Since 2013, there have been **1,271 students** who have added **711,000 words**, **86 images** and **9,030 references** to **642 health-related Wikipedia pages**.
- These Wikipedia pages have been **viewed 55.2 million times** since students began contributing.
- Participants highlight the refreshingly collaborative nature of the work-- for students, librarians, and faculty alike!



References


Innovation Report BLOG OPEN

Why Medical Schools Should Embrace Wikipedia: Final-Year Medical Student Contributions to Wikipedia Articles for Academic Credit at One School

Amin Azzam, MD, MA, David Bresler, MD, MA, Armando Leon, MD, Lauren Maggio, PhD, Evans Whitaker, MD, MJS, James Heilman, MD, Jake Orlowitz, Valerie Swisher, Lane Rasberry, Kingsley Osside, Fred Trotter, Will Ross, and Jack D. McCue, MD

Downloaded from http://pmh.bmj.com on September 2, 2017 - Published by group.bmj.com

JECH Online First, published on August 28, 2017 as 10.1136/jech-2016-208601 Essay

OPEN ACCESS

Evolution of Wikipedia's medical content: past, present and future

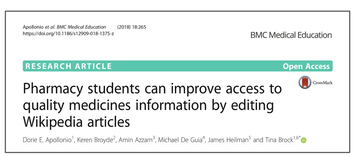
Thomas Shafee,[1] Gwinyai Masukume,[2,3,4] Lisa Kipersztok,[5] Diptanshu Das,[6,7,8,9] Mikael Häggström,[10] James Heilman[11]

Joshi M, Verduzco R, Yogi S, Garcia M, Saxena S, Tackett S, Dexter N, Dempsey A, Whitaker E, Azzam A
MedEdPublish
https://doi.org/10.15694/mep.2019.000146.1

Research article Open Access

Wikipedia Editing Courses at Three US Medical Schools in the 2017-2018 Academic Year

Mihir Joshi[1], Rafael Verduzco[1], Sara Yogi[1], Maite Garcia[1], Samskriti Saxena[1], Sean Tackett[2], Nadine Dexter[3], Angela Dempsey[4], Evans Whitaker[5], Amin Azzam[6]


Apollonio et al. BMC Medical Education (2018) 18:265
https://doi.org/10.1186/s12909-018-1375-z

BMC Medical Education

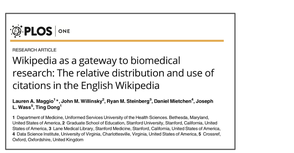
RESEARCH ARTICLE Open Access

Pharmacy students can improve access to quality medicines information by editing Wikipedia articles

Dorie E. Apollonio[1], Keren Broyde[2], Amin Azzam[3], Michael De Guia[4], James Heilman[5] and Tina Brock[3,6*]

Innovations in Global Health Professions Education 2017

Embracing Wikipedia as a teaching and learning tool benefits health professional schools and the populations they serve


PLOS ONE

RESEARCH ARTICLE

Wikipedia as a gateway to biomedical research: The relative distribution and use of citations in the English Wikipedia

Lauren A. Maggio[1]*, John M. Willinsky[2], Ryan M. Steinberg[3], Daniel Mietchen[4], Joseph L. Wass[5], Ting Dong[1]

1 Department of Medicine, Uniformed Services University of the Health Sciences, Bethesda, Maryland, United States of America, 2 Graduate School of Education, Stanford University, Stanford, California, United States of America, 3 Data Science Institute, University of Virginia, Charlottesville, Virginia, United States of America, 4 Data Science Institute, University of Virginia, Charlottesville, Virginia, United States of America, 5 Crossref, Oxford, Oxfordshire, United Kingdom

JOURNAL OF MEDICAL INTERNET RESEARCH Weisner et al

Original Paper

Improving the Quality of Consumer Health Information on Wikipedia: Case Series

Shira Schecter Weisner[1*], PT, PhD; Jill Horbacewicz[2*], PT, PhD; Lane Rasberry[2*], BS; Yocheved Berninger-Briody[3*], PT, PhD

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[2]Data Science Institute, University of Virginia, Charlottesville, VA, United States
[3]all authors contributed equally

Wikiproject Medicine efforts

Class	Criteria
FA	The article has attained featured article status by passing an in-depth examination by impartial reviewers from WP:Featured article candidates. **More detailed criteria** [show]
A	The article is well organized and essentially complete, having been examined by impartial reviewers from a WikiProject or elsewhere. Good article status is not a requirement for A-Class. **More detailed criteria** [show]
GA	The article has attained good article status, having been examined by one or more impartial reviewers from WP:Good article nominations. **More detailed criteria** [show]
B	The article is mostly complete and without major problems but requires some further work to reach good article standards. **More detailed criteria** [show]
C	The article is substantial but is still missing important content or contains much irrelevant material. The article should have some references to reliable sources, but may still have significant problems or require substantial cleanup. **More detailed criteria** [show]
Start	An article that is developing but still quite incomplete. It may or may not not cite adequate reliable sources. **More detailed criteria** [show]
Stub	A very basic description of the topic. However, all very-bad-quality articles will fall into this category. **More detailed criteria** [show]

Label	Top priority	High priority	Mid priority	Low priority
Criteria	Subject is extremely important, even crucial, to medicine. Strong interest from non-professionals around the world. Usually a large subject with many associated sub-articles. Less than 1% of medicine-related articles achieve this rating.	Subject is clearly notable. Subject is interesting to, or directly affects, many average readers. This category includes the most common diseases and treatments as well as major areas of specialization. Fewer than 10% of medicine-related articles achieve this rating.	Normal priority for article improvement. A good article would be interesting or useful to many readers. Subject is notable within its particular specialty. This category includes most medical conditions, tests, approved drugs, medical subspecialties, well-known anatomy, and common signs and symptoms.	Article may only be included to cover a specific part of a more important article, or may be only loosely connected to medicine. Subject may be specific to one country or part of one country, such as licensing requirements or organizations. This category includes most of the following: very rare diseases, lesser-known medical signs, equipment, hospitals, individuals, historical information, publications, laws, investigational drugs, detailed genetic and physiological information, and obscure anatomical features.
Examples	Tuberculosis or Cancer	Coeliac disease or Mastectomy	Cholangiocarcinoma or Cramp	Leopard syndrome or Flynn effect

Wikiproject Medicine volunteers rank-order all health-related pages by importance, incorporating viewership & global burden of disease

All Wikipedia pages are graded for quality following a standardized rubric

Combining quality and importance gives us a roadmap and call to action!

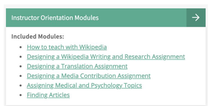
Medicine articles by quality and importance

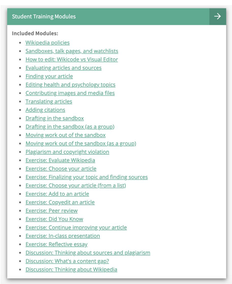
Quality	Importance: Top	High	Mid	Low	NA	???	Total
FA	10	15	21	17			63
FL		2	3	7			12
FM					51		51
GA	29	34	83	108			254
B	43	343	999	898			2,283
C	9	345	2,232	3,156	1		5,743
Start		205	3,968	11,680	3	3	15,859
Stub		8	2,206	9,209	1	3	11,427

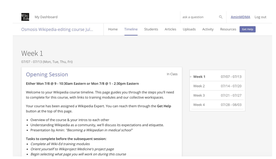
Result	Article	Importance	Quality
1	Antimicrobial (t · h · l)	Top 2014-03-19 (t)	C 2015-01-31 (t)
2	Antiseptic (t · h · l)	Top 2014-12-23 (t)	C 2015-01-31 (t)
3	Disease (t · h · l)	Top 2009-06-09 (t)	C 2010-04-18 (t)
4	Health (t · h · l)	Top 2008-06-20 (t)	C 2012-05-23 (t)
5	Health care (t · h · l)	Top 2008-02-25 (t)	C 2009-11-19 (t)
6	Infection (t · h · l)	Top 2007-11-25 (t)	C 2008-07-24 (t)
7	Mental disorder (t · h · l)	Top 2010-07-17 (t)	C 2014-01-28 (t)
8	Refractive error (t · h · l)	Top 2016-08-01 (t)	C 2009-01-10 (t)
9	Vaccination (t · h · l)	Top 2017-11-17 (t)	C 2017-11-17 (t)

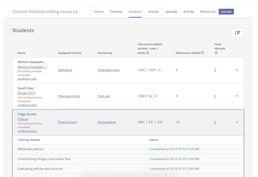
Wiki Education resources

There are training modules for both you and your students

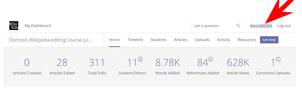

Instructor Orientation Modules
Included Modules:
- How to teach with Wikipedia
- Designing a Wikipedia Writing and Research Assignment
- Designing a Translation Assignment
- Designing a Media Contribution Assignment
- Assigning Medical and Psychology Topics
- Finding Articles


Student Training Modules
Included Modules:
- Wikipedia policies
- Sandboxes, talk pages, and watchlists
- How to edit: Wikicode vs Visual Editor
- Evaluating articles and sources
- Finding your article
- Editing health and psychology topics
- Contributing images and media files
- Translating articles
- Adding citations
- Drafting in the sandbox
- Drafting in the sandbox (as a group)
- Moving work out of the sandbox
- Moving work out of the sandbox (as a group)
- Plagiarism and copyright violation
- Exercise: Evaluate Wikipedia
- Exercise: Choose your article
- Exercise: Finalizing your topic and finding sources
- Exercise: Choose your article (from a list)
- Exercise: Add to an article
- Exercise: Copyedit an article
- Exercise: Peer review
- Exercise: Did You Know
- Exercise: Continue improving your article
- Exercise: In-class presentation
- Exercise: Reflective essay
- Discussion: Thinking about sources and plagiarism
- Discussion: What's a content gap?
- Discussion: Thinking about Wikipedia



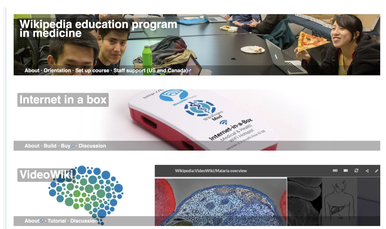


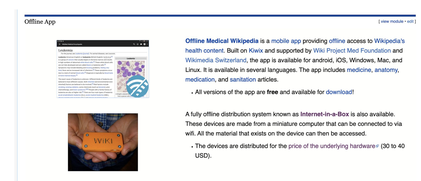
Course dashboards help you track your students' efforts and impact on Wikipedia's content



Health information for the world

There are a number of additional collaborations including a Translation Task Force, a mobile app, and offline access.





These collaborations make Wikipedia a potential public health platform providing free high-quality health information to the world's population.

This work sponsored in part through grants to Osmosis from the Hewlett Foundation. To join the movement, contact WikiEdu.org or email Amin.Azzam@ucsf.edu